5-

54 CGC	108 CGC	162 AGG	216 GAG	i 日 I	270 AAG	   \( \( \)	324 ACA	E
550	CTG	SCC	AAG	   区 	CTG	ļ	TAT	×
GAG	999	999	TGC	ט ו	TAC	! ! ≯:	GAA	臼
45	99 TGG	153 CCG	207 CCC	_ _ _	261 CGG	   K	315 TTA	П
TCC	GAG	TCG	GTG	>	CAG	   0	CAC	Ħ
TGT	CGA	TGG	GTG	>	CTG	l I I	CAT	H
36 GGG	90 CTC	144 GCG	198 ATC	! ! ⊢! !	252 GCG	 	306 ATT	Н
TCA	GTC	ව්ටට	GGC	 	CAG	i o	AAG	ĸ
CCC	256	GGC	ACG	I I	CAG	i Q	GTG 	>
27 CGG	81 CCG	135 CCC	189 AGG	i i i	243 ACC	   <del>[</del>	297 TGG	M
CTC	225	550	299	! ! ტ	CIC	   1	TAC	×
AGC	כככ	GTT	TTC	   ፲ <sub>4</sub>	GAG	   日 	GGT	ტ
18 GCG	72 CCA	126 CCT	180 TGC	ט ו	234 GGC	ן ני ני	288 CCT	പ
225	355	ACA	GTG		GTC	>	GGT	ტ
GCT	CTG	CAG	ACC	! ! [-	၁၅၁	   K	AAG	×
). LOS OSD 5	63 TCT	117 GGT	171 GTG	>	225 CTG	L I	279 GAG	臼
A AGG	555 222	117 CGG GGT	AAA	   X	CAG	l Q	0 1 1	ద
A	CCC	922	171 ATG AAA GTG	I I I	355		ACC	Ε

#### FIGURE 1A

378 AAA	M	432 AGC	Ω	486 GTG	>	540 CCT	Д	594 GTG	>
GAT	Ω	GAG	闰	GAA	闰	ACC	H	CCA	O.
GAA 	田	ATT	н	ACA	E	GTA	>	GAC	Д
369 GTT	$\triangleright$	423 AAG	ᅜ	477 GAG	田	531 GAA	ম	585 AGT	W
GTT	$\triangleright$	CAC	Ħ	T.T.T	ഥ	ATT	Н	AGC	ß
GAT	Ω	CTC	Ы	GCT	Ø	GAG	汩	AGA 	以
360 GCA	Ø	414 CCA	Д	468 GAT	Д	522 GGG	ტ	576 AGG	ሺ
TTG	ы	GAA	闰	CCA	д	GGT	ტ	GTG	>
GTC	$\triangleright$	CAA	Ø	AGC	Ø	ATT	н	CTG	IJ
351 GAT	О	405 GAA	田	459 CAG	Ø	513 CCA	ф	567 CTG	IJ
GAT	Ω	GAA	臼	990 1	ద	AAG	×	CCA	д
CCA	വ	LLL	Įτι	GAT 	Д	TTT	ſτι	ACT	H
342 GAT	Ω	396 GTG	>	450 GCA	æ	504 GCA	Ø	558 GGC	ტ
CTG	L	GCT	A	CCT	д	GCT	Æ	CTA	IJ
ATC	н	ATT	н	AAC	Z	CTG	IJ	AAA 	X
333 GGA	ტ	387 CTG	ı	441 GGA	ტ	495 CAA	Q	549 CTA	IJ
GGA	ტ	AAG	X	AGT	ß	229	Ą		
GAT	Ω	GAC	О	ן כככ	Д	300 800	A	TCT	Ω

### FIGURE 1B

648 AGT 	702 TTG	ц	756 AGT	i w	810 CAT	Ħ	864 CGA	껖
CAG	GTT 	>	TTG	ļ	ATA	н	ATC	н
0 9 9	GAA 	臼	ACA	! !	GGA	ტ	TTC	ĹΉ
639 GGT 	693 AGA 	ద	747 GAC		801 TTG	ц	855 CTC	ŭ
CCT	GAC	Ω	AAG	   K	CCA	Д	GGA	ტ
CAC 	GAA 	臼	ACT	   <b>[</b> →	395 111	ტ	CTA	ы
630 TCA 	684 TTG	ᄓ	738 AGA		792 GGA	ტ	846 ATT	Н
GCT  A	AAC 	Z	CCA	i i i	GAA	田	AGG	ጸ
AGC .	CAG	Ø	TCG	ນ !	999 	O	GGA	ტ
621 CCA 	675 ACG 	H	729 ACT	! ! E	783 TCT	ഗ	837 AGT	Ω
CAG	1 1 1	ഗ	CTA	<u> </u> 1	ATT 	Н	CTG	ц
ACC 	GAT	Ω	CTA	ļ	GAG	田	TCT	ß
612 GAT 	666 CCA 	വ	720 GAA	   田 	774 GTG	>	828 TCA	W
GCT  A	GTT 	>	ACA	! [	ACA	H	TTT 	ഥ
CCT P	GTT	>	CAG	l o	AGA 	ద	TTC	ഥ
603 CCA 	657 CTG 	니	711 GTA	>	765 ACA 	۲	819 CCC	Д
09   0   0	AAA 	×	GGT	ן ט	ATG	M	GTG	>
CCA  P	CTG	Ы	AAT		GAT	Д	GTA	>

### FIGURE 1C

918 GAA	   日 	972 GCT	\ A	1026 GTG CTT 	П	1080 AAC ATT	Н	1134 CAT GGA	ტ
AAT		CAG	a	GTG	>	AAC	z	CAT	Ħ
GAA	i 时 i	GCT	Ą	CAC	出	CTT	Ϊ́	GTC	>
909 CAC	i H	963 TTT	[   	1017 CTC CTC	ц	1071 TCT	່ ຜ	1125 CCT CCT	Д
-	ј ј [ті ј	ACC	H	CTC	ы	1. GGC .	ָ ט	CCT	д
CTA	H	AAA	X	GTG	>	ATT	ļн	500 CCG	Д
900 GGA	l U	954 GAC	D	1008 CCA AGT 	ß	1062 GTC	>	1116 GTG	>
GAG	<u></u> 日	GTA	>	CCA	Д	1062 TCA GTC	ຶ່ນ	1116 AAA GTG	X
990	i K	CTC	니	TCT	ß	AAG		ACC	H
891 AAG	i K	945 GAT	Ω	999 AAA	×	1053 TAT GAA	田	1107 TTG AAA	X
JCC	ည	GTG	>	ATG	×	1 TAT	   	1 TTG	Ъ
AGG	   K	AAT		GCA	Ą	CAG	ĺα	GTT	>
882 AGC	ι Σ	936 AAC	Z	990 CAG	O <sup>2</sup>	1044 CGT GAA	   田 	1098 GAT GGC	
AAC		ATC	H	CGC	ద	1 CGT	   K		Д
GAC	l Q	AAA	   K	TTC	ഥ	AAC	z	AAT	Z
873 GAA	i i i	927 GTA		981 GTC	>	.035 CAA	l Q	.089 AAT	Z
ATT	! ! Н	ATT	   H 	GAT 	Д	1035 CCA CAA	<u>.</u>	1089 GGT AAT	ტ
96C	ָ ט	TGT	ט	CAA	Ø	CCT	<u>.</u> Ц	TTT	ŢŦ

## FIGURE 1D

1188 . GAT	<u> </u>	1242 GGA GGA	ტ	1296 AAA AAT 	Z	1350 ACT	F	1404 AAA AAC	
1 ACA	<u> </u>		l U	AAA 	X	TTC	   [ri	AAA	 
GAA	   E	CTG	ı	AAT 	Z	GGT	0	•	
1179 , CCT	占	1233 . AGG	ద	1287 GGC AGC	ß	1341 CTT	- 1	1395 ATT TTT	   ፫ተ 
1 AGT	ι ω	1 CCA	Д	66C	ტ	GGA	0	) ATT	   H 
GAT	D	GTA	<b> </b> >	TTT	[과		   E	CCC	! ! Сч
1170 ACC		1224 CGA	l L	.278 GGA	ტ	.332 CCT	<u> </u> 4	1386 CCC GGT	ו ט
1 GGA	֡     	1 CCC	і Н	1278 IC ATG GGA TT	M	GGC 1	d	CCC	!   Ц
ACA	<u> </u>	AGT	ນ   	CTC	ы	AAA		GGT	     
1161 CTC	1	1215 AAG	N N	1269 ; CCT	Д	.323 AAG	L L	1377 . CAT	I I I
1161 AAT CTC	   Z	1. AAC		1 TCG	W	1 CTA	1	1377 ATA CAT	ļн
	- K	CAA	l Q	CTC	Ц			TCC	າ ເ
1152 ; ACA	<u> </u> =	1206 CAA	l Q	1260 TCA	W	1314 ATT	   H	1368 TCT	ເນີ່
ر ال	🗷	1 CTG	ו	1260 CCC TCA	Д	AAG	\	AC	
CTA	1	TCC	ເນີ	TCT	W	ATT	ļн	AGA	l l K
.143 GGA	၂ ပ	.197 GCT	   4 	.251 TCC	യ	.305 AAA	14	.359 ACC	! !
1 TCG	ည	1197 TCA GCT 1	ທ ! ທ	CCA	Д	1 AAG	K K I	1359 G GTT ACC AGA G	>
1143 AAA TCG GGA CTA AA	   X	GCA	   4	AAA	×	GCA 7	<b>4</b>	GTG	

4.00

#### FIGURE 1E

Andrews Control of the Control of th

1458 AGA	1512 ' GTG 	1566 . cgc	     	1620 GCA	- - - -	1674 ' TCA	S
1458 GAC AGA  D R	1512 CTT GTG 	1566 GCC CGC	- - - -	1620 TGT GCA	່   ບ	1674 GAT TCA	Ω
9	GAG ( 	ATT (	H	-	ပ	AAT (	
					•		
1449 CAA TCA  Q S	1503 CAG GAA 	1557 CTG GTC	1	1611 CCT GAC		1665 CCC CTG	д
CTA	ACC	TCG	w	GAA		ATC	н
1440 CGC 	.494 CGA 	.548 GCA	-  -	1602 AAA GGA			臼
1440 GGC CGC  G R	1494 GGA CGA  G R	1548 ACA GCA	[-	1 AAA	   \	1656 TTT GAG	Ĺτι
GAT  D	ACC 	GAG	i E		1	ACC	Ŀ
1431 AAA 	1485 GTC 	1539 CAG GGG	<sub>(D</sub>	1593 CGA GAG	i i i	1647 CAG CTC	IJ
1431 ATA AAA  I K	1485 GAT GTC  D V	1 CAG	l a	1 CGA	4	CAG	Q
GCA  A	AGA  R	AAG	X	CCC	ם	GAG	
1422 GGA GCA  G A	1476 AAT GGG  N G	1530	=	1584 TTT CTG	ΙΊ	1638 ACA AGC	Ω
GGA 	1 AAT 	AGC	l w	TIT	   [ <del> </del>		E
AAG  K	GTA 	Ø	12	CAT	H	GAG	   E
1413 TTA CCA  L P	1467 TTG GAG  L E	1521 ; CTC	M	1575 GAA GGA	       	1629 TCT CTG	
1413 ATT TTA CCA  I L P	111G 	1521 GCC ATG CTC	]   \   \	1575 CAA GAA GGA	   田 	1 TCT	က
ATT  I	ATT  I	သည	A A	CAA	ļα	CIC	ı

#### FIGURE 1F

	ן ט	1782 ' AAG	K	1836 CTT 	ᆸ	1890 ATG	Ħ	1944 ; AGA	ద
$\overline{}$	! ! E⊣	1782 TTT AAG	ĹΉ	1 TCT	Ŋ	1 TCC	လ	GAG	闰
	田	GCT	A	GAA	田	ATG	Ħ	CCA	<b>4</b>
1719 AGA	i K	1773 GGC GCT	A	1827 ' GGG	ტ	1881 CCA	Ъ	1935 AGG	
TCC .	ເນີ່	99C	ტ	1 AAT	Z	18 CGG (	ద	AGG	ĸ
AAA	   14 	GGA	ტ	GTT	>	AGG	ద	CTG	ı
1710 AAC		1764 ATT CAT	H	1818 GCA		1872 . CTT	'n	1926 ATT	н
1 GGG	l l	ATT	HI	1 ATT	н	ACA	H	GTG .	>
AAA	   X	ATC	H	CTG	니	GAA	田	TTG	ı
1701 TTA	1		ຶ່ນ	1809 CAG	Ø	1863 ATG	M	1917 ATC CAG	Q
1 AGC	ည်	1 AAA	×	1 GAC	Ω	18 GCT 7	A	ATC	Н
		ATC	н	AAT	Z	GAA	田	ATG	M
1692 GGG	ן ט	1746 ATT TTT	দ	1800 ATG	ĭ	L854 CAC	Н	1908 CGA GGG	ტ
	ļ	ATT	Н	1 CGA	ĸ	1 AAC	Z	CGA	ద
266	ן ניט	999	ტ	CTG	П	TCC	ຶ່ນ	ATC	H
1683	   <b>4</b>	1737 TTG	ı	1791 ' CGT 	ద	1845 . AAG	X	1899 . AAC	z
1683 TCT GCT	ນ   	3AC	Q	1791 GGT CGT	ტ	GGA	် ပ	1899 GGA AAC	ტ
GGT		ACA (	<u>-</u>	GAT	Д	TTG	니	GAG	田

### FIGURE 1G

1998 GAG AAC  E N	2052 CAT CCA  H P	2106 AAT GAC	D 2160	CTG GGA	ഗ	2214 TTT	ĹŦŧ
GAG	CAT 	AAT	z	CTG	니	TAT	×
777 4	CTG 	CCC	വ	GCT	Ø	GTA	>
1989 TGC	2043 - ATC 	2097 TTG CTG	L L	ICT	W	2205 TCA GCA	ø
CCA	2043 AGT ATC  S I	TTG	J (	CAT TCT	Ħ	TCA	Ω
AAG  K	AAT 	CTA	니	CCA	Д	GAT	Д
1980 TCC	2034 ' GAT	2088 GGT	G 7/7	CCA ACA	H	2196 ; GTG	$\triangleright$
1111 1111 1111	2034 AAT GAT 	2088 AAA GGT 	R C	CCA	വ	2196 GGG GTG	ტ
GCA 	CGA	CAG	Ø	TCT	Ω	TCT	Ω
1971 ' GGG 	2025 ' AGG	2079 GAC AAA 	K 2123	CCI	д	2187 AGC	Ω
1971 TGT GGG 	2025 TCT AGG 	2 GAC 	D (	CCA CCT	Д	2187 CAC AGC	H
GAG  E	ACC 	CAA 	Q	GTT	>	AGC	ß
1962 CCT GCA  P A	2016 ACC	2070 AGT CCA	P 2124	AGT GAA	臼	1178 TAC	≯
CCT 	2016 GTA ACC 	2 AGT 	Ω (	AGT	W	2 GAT	Д
GAT  D	GCT  A	TGC	Ö	GAG	Щ	GAA	田
			F 1		Ą	2169 GGC CTC	니
1953 CCA ATG GAG P M E	CAA 	999	r U	TGG	M		Ŋ
CCA 	TGT  C	CTT	니	GGA	ტ	TTG	ı

Guardina.

2268 TCA	i N	322 GTT	>	2376 , ACT	₽	2430 GAG	   E3	2484 . GGC	ტ
(1)	'     田 	2322 AAG GTT		23 CCA <i>P</i>	д	2430 3CC GAG	- - -	2484 CGA GGC	
	І Д І	AGC 7	W	GGT	ტ	GTG (		GTT (	>
	Ια	2313 GAA	田	2367 'TTT'	Įт	2421 ' GCA	- A	2475 ATG	Ħ
()	<u> </u> K	2313 GAT GAA	Д	2 GAT 	О	2 ACT	¦ E+	2 CAC	H
CCC	   4	CCA	Д	AAA 	×	CAG	ļ o	500	<u>்</u> பு
2250 CCG	l D	2304 ' GTG	>	2358 AGC	ഗ	2412 CTG	7	2466 CGG	씸
2250 ACA CCG	   E	2304 CTT GTG	ı	2 CCA	<u>с</u>	AGT	w	2	<u>a</u>
GTG	>	GAC	Д	TCT	ß	GAG	   E3	AGG	ద
2241 TCT	ູນ	2295 ATG	X	2349 GAA	田	2403 TTG	T	2457 CAC	н
	i E	2 AGC	ß	2 TCG 	ß	2 TCC	w	2 TTT	ᅜ
TTC	   [ <del>[</del> ]	AAG	×	AAA 	×	AGC	w	222	<u> </u> பூ
2232 : AAC		2286 TCG	ຶ່ນ	2340 GGA CAA	õ	2394 TCC	w	2448 CTT	니
2 ATC	   H	GCC	A	GGA 	ტ	AAG	\	2 GAC	D
CAC	i E	AAA		GCT	Ą	AAA	\	AAT	
2223	a	1277 TTG	ı	2331 TTG	H	2385 1 TTG	   	2439 3 AAG	N N
2223 CCA GAT CAG	l O	2277 AAT TTG	Z	TCA	W	GGI	ן ט	AGG	ద
CCA	<u>.</u>	ATT	Н	CAC	出	CTG	  -	GTC	>

#### FIGURE 11

17....

2538 CCT	2592 CAA GGA  Q G	2646 GAA	田	2700 GAA AAG	ĸ	2754 CCA GAA	ы
2538 GGA CCT  G P	CAA 	2646 ATG GAA	M	GAA	臼	CCA	വ
GAT  D	000 1 0	GAC	Q	AAG	X	GAT	Д
2529 TAC	2583 TCT  S	2637 CTA GAG	田	2691 AAG AAA	X	2745 AAT GAA	田
2 TCC  S	CAC '	CTA	ı	AAG		AAT	Z
AAA  K	TCT	GAG	臼	GAG	臼	GAG	ы
2520 GAC	2574 FAGC	2628 TCG	ω	2682 F AAG	X	2736 AAA GAG	
2520 ATT GAC  I D	2574 AAG AGC  K S	2 AAT	Z	2 GAG	闰	AAA	X
GCC 	GAT  D	999	ტ	AAA	X	C C C	멌
2511 AGA GCA  R A	2565 1 TCT 1 TCT	2619 CCT CAG	α	2673 AAA ACG	H	2727 AAA AAG	X
AGA  R	CTG	CCT	Ъ	AAA	X	AAA	X
777 	GGT 	200 800	A	AAA	X	GAG	田
2502 F AGC	2556 - GAC  D	2610 TCT	က	2664 . GTC		2718 GTC AAG	X
2 GAG 	GCT 	2 GAG	i i i	2 AAA	以	GTC	>
AAT  N	GAA  E	TGT	ט	AGG	民	AAA	X
2493 TGC 	2547 ATA 			2655 . GCC	Ą	2709 TTG	Ы
2493 CGA GGC TGC  R G C	2547 GAA GAA ATA E I	CTG	ļл	AAA	X	2709 GGC AAA TTG	X
CGA  R	GAA  E	CCT	   4	AAT	Z	39 J	ტ

#### FIGURE 1J

									$\sim$	
01	l I	2862	CCT	д	2916		 A	970	TAA	   
GCT	Z Z	(1	TTT	נדי	(1	$_{ m LCL}$	ເດ	(1)	TCI	າ ເ
	I Д		GCT	ø		CTT	1		CIG	ļ
	ე	2853	CAC	Ħ	2907		S I	2961		! !
늰	! } ≯	(1	900 1	Ø	(1	CGT		(4	AGG	   K
AGG	i i 없		AAA	X		GCT	- A		GAC	ļ
73 CT	ΙĮ	2844	AAA	×	2898		l o	2952	_	
Ö	i E	(1	CTG	ᆸ	(1	$\mathrm{TIC}$	   圧		AGT	ນ   
225	l A		CIC	ᆸ		CAA	l o		TAC	   }
2781 GGC	G	2835	TCT	ഗ	2889	TCT	ຸ່ ຜ	2943	•	က   
Ö	   [ <u> </u>	(1	TTG	ᄓ	(1	299	ן ט	(1	GAA	   円 
299	ן ט		ATT	Н		TAC	>		9	ן ט
77 AA	I K	2826	CIC	ц	2880	_	   4	2934	m LLL	।   स्मि 
2 AAG	l K	(1	GTT	>	(1	AAT	l   	(4	CLI	ļ
AAG	   K			H		CCA	니 다 다		GAG	   圧] 
2763 AGG AAA ATA AAG	Н	2817	AAG	×	2871	CAG	l a	2925	GAG	   円 
2 AAA	! ! \	2	GCA	A	2	CTT CAG	о П	8	GCA GAG	   4 
AGG	i i i		AAG GCA AAG	×		CGT	4		GAG	I I 臼 I

### FIGURE 1K

آء

54 GAC	<u> </u>	108 AAG	×	162 GGA	ტ	216 AAA 	ĸ	270 GGC GGC	)
999	 	5 CGG	民	CAT	н	GAT	О	GAT 	1
TGC	ט	TAC	≻	GAA	田	GAC	Д	GGT	)
45 CCG	ፊ	99 CGC	ద	153 TTG	ı	207 GCA	Ø	261 GGA 	)
GTG		ACC	H	CG .	ద	GTA 	>	CAC 	;
GTC	>	GTG	>	CAT	н	GAT	Ω	CAT	;
36 GTG	>	90 GCG	Ą	144 GTG	>	198 TGT	ပ	252 CCA 	4
CGG	   	CAG	Ø	CAG	Ø	CTT 	Ы	GAT  D	1
ACC	🛏	CAG	Ø	ATA	H	ATT 	Н	CAG	K
27 CGG	&	81 ATC	н	135 TGG	M	189 GAC 	Д	243 GAG 	1
GGA	ტ	CTC	ŭ	TAC	7	GAT	Ω	GAT	1
TTC	   E4	AGC	ß	AAC	Z	CTT	ы	TTT	4
18 TGC	၂ ပ	72 TTC	[ <del>I</del> -1	126 CCA	<u>d</u>	180 GAC	Д	234 GTG 	>
GTG	>	GTT	>	GAT	Q	CTA 	ч	GCA 	•
ACC	🗗	AAA	X	AAG	X.	ATA 	Н	GTA 	>
9 GTG	>	63 ATG	Ħ	117 GCC	А	171 GGA 	ტ	225 CTG 	1
AAA	   	CAC	田	ATC	H	GGA 	ტ	AGA 	<b>;</b>
ATG	- - X	0.0C	ტ	00C	Ą	GAT	Ω	225 GAC AGA CTG GTA G  D R L V	1

#### FIGURE 2A

m.

324 CTT 	378 GAG 	432 AGT 	486 TCT 	540 CTC 
GAG  E	ATT  I	AGT 	TCC S	17 1 - 1 18 - 1
AGT  S	GAA  E	CGC 	7777  F	0 0 0
315 GGT 	369 AGT 	423 CGA 	477 AAT 	531 GCT 
Д   Д   А	ACA  T	GTT 	AGT 	ACA 
ATA  I	GCA  A	CAT  H	GAT  D	ACA 
306 GAG 	360 CAA 	414 CTT  L	468 AGT 	522 TCA 
CCA  P	TAC 	CCT  P	GTC 	TGG  M
AGC	CCT	ATG 	TCT	CGC R
297 CAG	351 CAG 	405 AAT 	459 ACT 	513 ACA 
ACC 	다다. 면	GCA 	TCC 1 S	CCC
G   G   G	GCC	CGA 	CTC L	AAT  N
288 ACG 	342 TCA 	396 CTT 	450 GGC 	504 AAA 
T CC	GTC 	GTC 	ATT  I	AGG 
AGT	AAT  N	TCA 	CTA 	TCA S
279 GCC 			441 GCT 	
			CCA P	
ACC 	0 0 0 1	GTC 	GAC 	GAA 

#### FIGURE 2B

594 AAC 	648 GAC 	702 GAG	i 田	756 CCT	C.	810 GAT	D
GAA E	AGA  R	CTG	ļ u	GAA	闰	GAT	A
GAT  D	CAG  Q	TGG	M	GTT	>	CTG	긔
585 AAA 	639 TTT 	693 AAG	N N	747 CGT	ሺ	801 TCT	Ω.
AAG  K	CAA 	288	t to	AGT	Ω	TTT	Ъ
AGG  R	AAC 	GTG	>	AAC	Z	AAC	Z
576 GAC 	630 TCT 	684 ATG	×	738 GAT	Д	792 CCC	Ъ
1 JGC 1	TGG 	CCA	<u> </u> ப	GAG	臼	ATA	Н
ACC T	AAC	CAC	H	GAA	闰	CAT	H
567 AAA 	621 AGT 	675 AGT	ູ່ຜ	729 ACA	H	783 GAG	田
CCT 	ACT 	225	A	999	ტ	TTG	니
AGT  S	GAT  D	AGT	ຶ່ນ	GAT	О	GGT	ტ
558 GGG 	612 CGG	666 CTG	H	720 GAG	臼	774 ACG	H
GCT  A	CCG 	TCT	Ω	GAT	О	GAC	Ω
ACT  T	CTC 	TCG	ß	CAG	Ø	5 T GCT	A
549 AAC 	603 AGC 					765 CAT	H
CAG	AGA  R	GCT	Ą	CAA	Ø	GGA	ტ
AAG 	TAC 	AAT	N	AAA	×	GTT	>

### FIGURE 2C

864 GTA	>	918 TTG	니	972 ATT	н	1026 CAT	H	1080 GCA	Ą
CAT	н	CGA	ద	JGC	Ŋ	CAA	Q	CCT	д
ATC 	н	AAA	×	GAT	Ω	GCA	Ą	GTT	>
855 GGA	ტ	909 GTA	>	963 AAT	Z	1017 CAA	Q	1071 GTG	>
CTG	ы	TTA	ı	GAG	Œ	1 GAA	臼	CAT	н
CCT	Д	TTA	ı	CGT	ĸ	ŢŢŢ	ĮΤ	TLC	ĹΉ
846 GGG	ტ	900	ტ	954 TTT 	ഥ	1008 AGA		1062 TGG	M
GGA	ტ	CTG	Ы	CTT	П	1 AGA	껖	1 ATT	н
GAT	Д	ACC	H	AAT	Z	AAT	Z	ATC	Н
837 AAC	Z	891 AGA	ద	945 GAA 	Ŀ	999 CGA	柘	CCC	д
ו נככ	Сц	299	ტ	CAT	Ħ	CTT	ı	ACA	
GTC	>	999	υ	GAA 	ഥ	GAC	Q	CGT	ద
828 GAA	团	882 CGA	ద	936 GCT	Ø	990 GGC	Ö	1044 ATG	×
GTA 	>	GCT	A	AAA 	M	GAT	Ω	GCC	A
CTC	Ы	AGT	ω	GGT	ט	AAT	Z	CAA	a
819 AAG	X	873 TTC	Į. Į.	927 GGT	ტ	981 ATT	H	-035 CGC	ద
GTA	>	CCT	<u> </u> գ	AAA 	×	AGG	R H	1035 TTT CGC	Į. Į
ATG	M	GTG		GAG	臼	GTC	Λ	ATG	M

## FIGURE 2D

							4 \$	ţ:		
7	TAT	⊱	1188 AGT	ຶ່ນ	1242 . CAG	Q	1296 CCA	<u>Б</u>	1350 GGT	හ
7	$\circ$	×	1 AAC		1 GAG	闰	1296 CCA CCA	ᆸᅀ	1350 AGT GGT	ഗ
	AAT 	Z	GTG	>	CCT	Д	AAA		AGC	ഗ
C	ન હ:ા	Z		s S	1233 CCG	Д		   0	1341 'GTA	<b>&gt;</b>
,	0 1	×	1 AGG	~	1 CAC	Ħ	1 TCG	ျ	ACT	E
	GAG	臼	AAC	¦ ¤	AAC	Z	CCC	<u> </u> 4	ACG	H
7	⊣ Æ ।	ഗ		0	1224 CGA CTG	IJ	1278 GCA CAC	н	1332 AGT	ഗ
,	<b>(2)</b>	Q	1 ATT	ļн	CGA	ĸ	GCA	K	1 TTT 	ᅜ
	11CC	ഗ	TAT	>	כככ	Д	AGC	ျွ	GTA	>
7	-101	Ц	1161 CAG	ļα	1215 GCA	Æ	1269 CAT	¦ ¤	1323 AAT	Z
7	<b>⊲</b> : I	Q		ຸ່ໝ	1 AGA 	ద	1 CCT	<u> </u> 4	CAG	Ø
	GAA 	闰	GAC	0	CAG	Ø	CTA	1	CCT	വ
0	TAT	×	1152 CCT	ப்	1206 GTG	>		&	1314 GCA	A
,	יו פט	Q		່ຂ	ACG	E	1 TCA	ျှ	ے ای	ഗ
	GAG	臼		   [± <sub>1</sub>	CAC	Ħ		Ħ	30C	A
0	AAA	ĸ	.143 CGT	~	.197 CTT	ы	.251 TCT	ຸນ	.305 CCA	വ
7	AAT 	Z	agc	ျွ	3 GGG	ტ	1251 GAC TCT	i o	1305 CC GCT CCA GCC 1	A
	GCA	ď	1143 TCA AGC CGT	ြက	1197 GCA GGG CTT	Ø	ATA	Н	JCC	တ

### FIGURE 2E

1404 ' ACA	<u> </u>	1458 GCT	Ą	1512 CGA	ద	1566 : AAA	   K		>
1 GGT	   0	1 TCA	ß	1512 GGC CGA 	ტ	1 GGC	ט	1 ACT 	₽
	     	00C	. U	GAT	Ω	GTG	>	GGA	Ŋ
1395 ' AAG	     	1449 GGT	ტ	1503 ATT CAG 	Ø		1	1611 GAA	迅
1 CTT	1	1 ATA	н	ATT 	Н	1 GAT	ļΩ	ATG	×
CAG	ļ a	A ACA		) ) )	Ą	GTA	> <u>  </u>	AAG	M
	   H	1440 GAT GTA	>	1494 GCG	Ą	1548 AAT GGA		1602 ACC	₽
1 AAT	Z	GAT	Ω	1 GGG	ტ	AAT		1 AGC	യ
_	ļ	AGA		0.0G	ద	GTA	>	AGA	ద
1377 P AGG	i K	1431 ACT TCC	Ω	1485 CCC	щ		   田 	1593 TTG	ı
1 AAG	<u> </u> ×	ACT	E	1 CTC 	口		 	CTG	ᄓ
990		ATC	Н	ATT 	H	CTT	1	TCG	Ω
1368 ATA	! 	1422 AGC	ຶ່ນ	1476 . AAC 	Z	1530 AGA	~	1584 GTT	<b>&gt;</b>
1 AAA	   \	TTC	伍	1 AAA 	×		ļ	1 GTT	>
AAA	   X 	GGA		GTG	>		ן ט	GAA	田
1359 ! ACC	   E	1413 'TTG	ㅁ	1467 TAT	⊱	.521 GCA	K A :	1575 CAA GAG	田
1 AAC		GGT	ტ	ATC 	н	1521 AAG GCA	 	CAA	α
1359 TAT AAC ACC	   }	GAA	田田	CCA	Д	CTT		JCC	က

#### FIGURE 21

			7 7 3 4 3	
1674 GCA 	1728 'ATT' 	1782   AAT 	1836 AAA GAG  K E	1890 GCA GCA  A A
AAT	1 GAT D	CTT 	AAA 	GCA 
CTG D - 1	GAG 	CCA 	TCA 	GGA  G
1665 GAA 	1719 GAT	1773 GTC 	1827 CGG 	1881 - GGA 
AGG	1 GAA  E	1 GAA  E	AAC  N	AAT  N
CCA	GCA 	TYTY  F	GGT 1 - 1	ATT  I
1656 CAC	1710 3 AAA 	1764 ; ACA 	1818 AAA 	1872 ATT 
1 TTC  F	ACG .	CTG	1 GTC 	TCC .
9CC 	GAA 	7777 F - F	AGT 	AAG 
1647 GAC	1701 AAA 	1755 GAA	1809 3GT GTC  G V	1863 GTC 
1 GAA 	CCA	AGG	GGT 	7777 
CAG 	ATT 	ACC 	CTT 	ATC  I
1638 CGC	1692 CAG	1746 GAT GGC  D G	1800 . GGC 	1854 GGA 
1717 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ATG 	GAT  D	1 GCA 	111G
GTC 	CAG  Q	CCT  P	TCT S	GAT  D
	1683 AGC	1737 :TT ACA  L T	1791 TCA GGA  S G	1845 CAC GCA GAT  H A D
[] []	1683 CCA AGC  P S			
AGC (	GAG 	GTT (	GAT  D	AAC  N

500 1 50 Feb.

#### FIGURE 20

1944 GGA GAA	   円 	1998 TCT ATG	×	2052 AGA ATA	Н	2106 CTG CCC	L	2160 TAC AGT	Ω
1 GGA	   	TCT	ß	AGA	ద	CTG	ı	TAC	≯
AAT	   Z 	AGG	ద	AGG	K	GAG	<u>田</u>	CTC	IJ
1935 GCA GTA	>	1989 AGA	ద	2043 GTT GCA	Ą	2097 3GA CCT	<u>а</u>	2151 CAT TCC	യ
GCA	- A	1 CTA	니	GTT	>	GGA	ָ ט	CAT	Ħ
ATA	Н	ACC	H	ATT	Н	CCT	Ц	TCC	ß
1926 CAA CTG	1	1980 ATG GAA	田	2034 CAG CTT	ㅁ	2088 AGC CCC	I Д	2142 AGA ATT	н
1 CAA	ļα	1 ATG	M	CAG	a	AGC	ι N	AGA	ሺ
GAT	<u> </u>	225	A	ATC	ļн	999	ָ ט ו	CGA	ĸ
1917 GTG AAT		1971 CAA GAT	Ω	2025 GGA ATG	×	2079 TCA CCT	I L L	2133 AGA GAA	田
1 GTG	>	CAA	Ø	GGA	ტ	TCA	ນ ! ທ	AGA	ద
550	   K	AAC	Z	CGA	ద	AAG	i K	GAT	Д
	ן ו	1962 PACA	E+	2016 AAT AAA	K K	2070	ļ	2124 TTG GAT	Д
J AGG	4	AAG	×	2 AAT	z	GAG		TTG	IJ
GGA	   	299	ტ	25 0	ტ	AAT		928	Ą
1899 GAT	i A	1953 ; TTG	H	2007 GAA	H	2061 ; TGC	ט	2115 ACA	E T A
1899 TCT AAA GAT GGA	   X	1 CTG	ļ	ACT	į <sub>E</sub>	2 AAG	i K	2115 ATT GAA ACA GCG	闭
TCT	ຸ່ນ	1953 TCC CTG TTG GGC	യ	2007 TCT ACT GAA GGC 7	ω	2061 AGC AAG TGC AAT	S I	ATT	Н

#### FIGURE 2F

gar took

	   H	2268 CAA GAT		2322 CTC TCT	ຸນ	2376 GAT GCT	A	2430 AGT CCA	Д
2 AGG		CAA	ļ o	CIC	ļ	GAT	Ω	AGT	ູ່ຜ
AGT	ເດີ່	CCC	¦ д	CAT	i H	GCA	A	TTG	ļ
	1		   \ 	2313 CCT CCA	- - -	2367 ACG	H	2421 TCT	ິດ
2 GCC	- A	2 AAT		CCT	l L	2 GTG		2 TGC	رم
GCT	- - -	GTG	>	CTT	ᆸ	TTT	   ፫4	GAC	Q
	¦ z	2250	! ! E	2304 GTG	>	2358 GGG	ט	2412 TCA GCC	Ą
(1)	4	(1)	<u> </u> 4	2304 CCA GTG	l L L	2358 GTG GGG	>	TCA	ທ
AGC	ျှ	TCC	ျွ	TTG	i i	GAT		GAT	Q
	<u> </u> 4	2241 CTG	1	2295 : AGG	   K	2349 ' GAT		2403 AGT	လ
2 TCG	S	( N	l o	2295 GAC AGG		2349 CAT GAT	H	2403 ATC AGT	Н
GAA	口	TAC	>	GAT		TCC	ß	GCA	K
2178 'GAT	0	2232 ' AAA	\	2286 ATA GAA	   田 	2340 AGC	ເນ	2394 AAG GCT	A A
(1)	1	(1)	l G	2 ATA	H	(N	ι Ω Ι	AAG	M
999	ן ט	TCA	ည	ATT	   H 	E I	າ ເ ທ	300 800	4
	! ! 臼		   [2] 	2277 GTC		2331 3 TCC	ι Ω Ι	2385 , TGG	M
2169 GGG ATT GAG		GGT	   G	2277 GAC ACT GTC	T V	CAG	α	2385 GGT ACT TGG	M L
999	ט	ATG	   \ 	GAC	Ω	2331 GAC CAG TCC	Q	GGT	ტ

#### FIGURE 21

2484 ATG	2538 AAA 	2592 AAT	Z	2646 CTG	ļ	2700 GAG GTG	$\triangleright$
AGT 	GTT .	CTC	П	2 TCC	Ω	GAG	臼
CAG	777C 	AAA 	ĸ	CCT	Д	30C	Ø
2475 CGT	2529 GAT	583 ACT 	₽	2637 GGT	ტ	2691 GTT	>
2 GGA 	2 TTG 	GAG 7	臼	2 GTG	>	2 GCA 	Ø
[]   []   [] []	CAA 	GAC 	Ω	GAT	О	ACC	H
2466 GGA	.520 AGT 	2574 GCT	Ø	2628 AGA	껁	2682 CAG	õ
2 GAA 	2 GCC 7	2574 ATA GCT 	Н	2 AGC	ß	CTG	Ц
CGA	GAT  D	GGT 	ტ	CCC	д	AGT	W
2457 CAA	2511 TCA	7565 TTA 	ı	2619 TCT	യ	2673 GAG	臼
7111 1111 1111	2 TTT 	2: GAT '	Д	GGT	ტ	2 TTG	Ц
GCT 	CAA 	ATG 	M	GCA	Ą	TCG	ß
2448 CTT 	AAG	3556 AGC	Ω	2610 AAA	ĸ	1664 AGC	Ω
2 GTT 	ACA T	2 AAA .	×	2 CAG	Q	TCA T	ß
CCA	CGC	TCA	Ω	GAC		AAG	
2439 GAT	2493 PA AAA  E K	547 AAA 	ĸ	2601 3 GAT	Д		×
2439 GAT GTT GAT  D V D	GAA 	CGA	ద	GTG	>	2655 GGT CTG AAG	口
GAT  D	2493 TCA GAA AAA  S E K	2547 ACA CGA AAA T(	H	2601 ACA GTG GAT	H	GGT	ტ

16 3 \$ 84.8

#### FIGURE 2J

2754 AGA GGC  R G	2808 CCC 	2862 GAA GAA	臼	2916 CAC	出	2970 ' AGA	멌
AGA 	2 AAA 	GAA	臼	TCC	ß	2 GAT	Д
ATC 	GAT  D	ACA 	E	CCT	ሷ	ACT	H
2745 3 ATA 1	2799 'TAT' 	2853 . GAC	А	2907	Ø	2961 ' AAG	ĸ
2 CGG .	TCT 	2 GAA 	禸	2 GAT 	Д	2 GAT	Д
CCG	AAA  K	GAA 	臼	AGT 	Ω	GGT	ტ
2736 CGG	2790 : GAC 	2844 TTG	ᄓ	898 GCC	Ø	2952 AAA	X
CCA	2790 ATC GAC  I D	2 ACC 	H	2898 ACA GCC	₽	2 GAG	田
CGT	GCC 	GAG	臼	TCC 	Ω	CAA	Ø
2727 CAT 	2781 GCT 	2835 ATG	Ħ	2889 ' GTA	>	2943 AAC	Z
TTC 	2781 AGA GCT  R A	2 GGC 	ტ	2 TCT 	ß	2943 GGA AAC	ტ
CCT	TTC 	GAA 	ſτÌ	GAG	田	AAT	N
2718 ATT	2772 F AGC	2826 ' GAT	Ω	880 AGA	멊	2934 ATG	M
GAT 	2 GAG 	2826 GAT GAT	А	2 GGG	ტ	CAA	Ø
999 9	AAT  N	GAT		TCA	Ω	AGA	
2709 ; AAT 	2763 TGC	2817 . GAT	Д	2871 A AGA	დ ~		臼
2709 ACT TTG AAT T	GGA	2 GTA 	>	TC2	ഗ	CTG	ᆸ
ACT 	2763 AGG GGA TGC  R G C	2817 GCG GTA GAT	Ø	AGT		TCT	Ω

## FIGURE 2K

3024 GAT	[ Q	3078 TTT	   ፲ੑੑੑੑੑੑੑੑੑੑ	3132 CAG	Ø	3186	AGG	3240	TAT	≻
3024 AAG GAT	14		ద	3 ATA	Н	(,,	GAG	تا ژ., تا ژ	6.AC	Д
GAG	     	TTC	ļ ļ	AAA 	×	!	CAG	ک و و	15 H	ద
3015 GAT AAG	🛚		M	3123 AAA ATA 	Н	3177	GAG 	3231	CGA GAG	田
	<u> </u> A		Ω	AAA	×	.,	CAG	۰۰, ک (و	45) 	民
AGA		GGA	ט	GGT	ტ	1	AAG 	4 Ç	ו ל. ה	Ø
3006 AAA GAT	A		ı	3114 AAA ACG 	H	3168	A;	3222 ***	CAA	Õ
3 AAA			ט	S AAA 	X	(*)	CGA	د ژ۰	457 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ద
AAG		AAG	X	GAG 	田	,	ATA 	- F	GAP 	田
2997 AAG	¦ ×	3051 CTG	ı	3105 ATT 	Н	3159	AGG	3213	AG	ద
GAZ	日		M	3 AAG	M	(*)	GAG	a ('')		দ
AAA	\	GGA	ტ	GAC	Ω	1	GAG	리 [	GAA	田
2988 ' GGA	ן ט		M	3096 . GAT	Ω	3150	GAA	3204 3204	45) 	ద
2 ACT	E-I		M	3096 AAA GAT 	×	(*)	TCA	υ <u>ξ</u>	ACT.	H
AAA		CC CC	Ą	CGA	ద	!	ACA	-	AAA 	X
	0	3033 AAA	M	087 CAT	出	141	H H H	3195	ا ا ا	В
2979 AAA AAG GAT	M D	3033 ATG AAA	×		K H	(*) (	TCC TTT 	υ (,,	CAA GCC	Q A K
AAA		AAA	×	28 29 1	ტ	! !	GAA 		ATT	н

#### FIGURE 2L

			ه د روه و د	•	
3294 7 TAT 	3348 AGC 	3402 CGG	3456 GAT 		>
ATG 	3 CAG 	3 CCG 0	CAT	3 GAT	Д
TTA  L	CCT 	AAG  K	AAT 	GAA	ഥ
3285 ' GAG	3339 'AGA 	3393 AAG	3447 ' AGC 	3501 GAT	Д
3 GAT  D	3 GCT 	3 GTC 	3 CCT 	3 CAA	ď
GAT	AAC  N	CAA 	ACT  T	AAG	×
3276 TGT	3330 CTC	3384 GCC	3438 1 TCA 1		A
	3 GCT 	3 TAT 	AGA 	3 CAA	ď
다 다 편	ATG 	11G	AAC 	CAG	a
3267 F ACA 	3321 TCC  S	3375 GCT 	3429 AGT	3483 TTT	, Eri
CGG   R	GGT 6	3375 GAT GCT  D A	3 GAC  D	3 GAA 	田
CAT  H	GAA 	ATG  M	GTA 	CAA	a
3258 TTT 	3312 TAT	3366 - ATG 	3420 . ccT	3474 AGG	ద
GAT  D	TCT S S	CAT	3 TCA 	3 CTG	ᆸ
CAA 	TCT S	999   9	CCC P I	CGT	K
	303 GTT 	3357 GAA 	3411 AAA 	3465 CAG	ď
3249 GCT GAA ATT  A E I	3303 3GG GGA GTT TC  G G V S	CGA	3411 TCC AAA ( S	ATA	Н
GCT 	999 999	CCA 	AAT 	CGG	ద

FIGURE 2M

3564 CGG CCG  R P	3618 CGG CAG  R Q	3672 TCT CTG	   	3726 GAG CAG	ία	3780 TAC TCC	ß
CGG	CG CGG	TCT	S I	GAG	   田 	TAC	×
GCA 	CAG 	AGC	ω	TGG	 	AGG	ద
3555 3555 3 AAC  N	3609 CAG ATG 	3663 CAG TAC	>	3717 TCT	າ ເ	3771 AAC CCC	<u>Д</u>
3 CCG 	CAG 	E CAG	l a	3717 GAC TCT	0	AAC	z
TGG 	GTG 	CGC	   K	CAG	ļ ø	GAG	田
3546 CCC	3600 GAG	3654 CAG	ļo	3708 TCC	ເນ		N N
3 CAA 	ו פי	3654 GCC CAG	K	3 GTC		33	A
GAG  E	S S	CAG	io	JCG	າ ເນີ່	AGT	ເດ
3537 TTT 	591 GTG 	3645 CAG	ļ o	3699 AGC	ເນີ	3753 CAG	ıα
3 AGT 	3 TCG 	3645 TCC CAG	ι α	3699 GCC AGC	 	3753 TTC CAG	ј Г
TAT  Y	CAC 	AGC	i w	AAT	l l l	GGC	ტ
3528 F ACC	.582 CGA 	3636 CGC GAG	i i i	3690 AGG AAA	i K	3744 GGG GAA	i i i
3 CGG  R	3 GGG 	390	<u> </u> &	3 AGG	   K	999 3	ן ט
CGG	AGC	GAG	   田 	∢	ຸ່ນ	CCT	<u>Б</u>
	3573 CAG	_			l o		ເນ
3519 GAA GAT CGT  E D R	3573 GCG ACG CAG  A T Q	3 CAG	E E E E E E E E E E E E E E E E E E E	990	 B B B	3735 AAC TAC TCC	 
GAA 	GCG  A	550		CCT		AAC	

#### FIGURE 21

3834 GCC AGG	l R	3888 GAG CAG	   0 	3942 TAT AAG	   K	3996 GAT GTG		4050 GAG AAA	X
(၂)	A	GAG	   E	TAT	>	GAT	Ω	GAG	田
AAC	Z	AAG	l l M l	TCG	ျှ	CAA	i a	CCT	വ
3825 GGC TTC	   [4	3879 AGG CGG				3987 TTC CGG	   K	4041 CAG ACT	E
355	ן ט	3 AGG	   K	3 TAT	¦ >-	3987 TTC CGG	   压 	CAG	Ø
CAT	H	CAG	i o	AAC		כככ	і Ц	CTT	
3816 GGA GGA	ן ט	3870 GAA	   田 	3924 3 AGC	S I	3978 GGG	l U	4032 AGA	<b>K</b>
3 GGA	   G	3870 CAG GAA	i o	3924 CCC AGC	і Ц	3978 AAG GGG	i i i	4032 AAC AGA	Z
CTG	L	CGC	i K	999		ממכ	   	CTG	
3807 TAC	>	3861 CTC CTT	ļ		! ! 田 !	3969 CCT	<u>ப</u>	4023 AGG	<b>~</b>
3807 GGC TAC	 	CTC	ļ	3 TCC	ເນີ	3969 GCC CCT	N A	4023 GCG AGG	A
AAC	¦ z	GAG	   日 	CCT	ᆸᅀ	TAC	<b>&gt;</b>	GTT	>
3798 TCC AGG	4	1852 CAG	ĺα	3906 CAG CCT	l Б	3960 CCC AGT	ß	4014 TCT CAG	Ø
3 TCC	ຸ່ ຜ	3 ACT	   [+ 	3 CAG	ĺ ợ	3960 CCC AGT	<u>Ц</u>	4 TCT	ഗ
ggC	ש	GAA	i i i	Ø	 	G	Ω	CCT	വ
	l o		i i i	3897 3 AAG	   124	3951 CAG	la	4005 TCC	യ
3789 AGC TAC CAA	ў	3843 GTC ATG CTG		3 ATG	I M	3 GTC	>	4005 CCC CCC TCC	വ
AGC	ျှော	GTC		3897 CAG ATG AAG	i o	3951 AAA GTC CAG	i   	CCC	വ
								•	

## FIGURE 20

						• 1	٠	
4104 GCG CAA		4158 . ACC TCG	4212 TGT AGG	4266 TGT TTC 4320	4374 CGC GGC	4428 TGG AGG	4482 GAC ATC	4536 CTT TCT
GTC		AAA	SSS	GTC	GTC	AAG	GAT	999
4095 CTT CAT		4149 TTT TTT	4203 TTT AAG	4257 TCA AGT 4311 GGT GTT	4365 TGA GTT	4419 CAC CTG	4473 CTA TGG	4527 AAA TTG
ATG (		AGT 1	GCC 1	GTC 1 TGA (	TCA 1	ATT	TAG (	CAA
4086 TAA CGG		4140 TTT GGG	4194 ATC AGT	4248 CAC TAT 4302 TCT GTT	4356 CCC TAC	4410 TGA CAA	4464 TTC TCT	4518 ATA CAC
AAA		TAT	GGT	TGC	SSS	CAG	AAG	GAC
4077 GCA CGC		4131 GAC TTG	4185 GTT GTT	4239 TGT CTT 4293 TGA CAA	4347 GAA TCT	4401 CAC TTG	4455 CCC TCT	4509 AAA GTG GGC GAC
TGA		GAA	TCT	TAA	CAG	CAC	TCT	
4 ,	. Y	4122 TCC TAT	4176 AGT ATT	4230 AGG CCT 4284 CCC ACC	4338 CAG TAC	4392 TCC CTG	4446 CCT GTT	4500 GGA GGA
TTC	   [±4 	TTT	TGG	GGA	CCA	ACA	GGC	GGT
4059 GGG AGG CCC TTC	교 교 교	4113 TAA AAG ACA	4167 ATG GTA CTA	4221 CAA AGA AAT GGA 4275 ATG GAA GGA TTT	4329 GCC TCT	4383 GTT GTA	4437 ATG ACG TGC	4491 TTA GTC TCT
555	   0	TAA	ATG	CAA	TGC	TTG	ATG	TTA

## FIGURE 2P

4590	4644	4698	4752	4806	4860	4914	4968	5022
GTT TTC TCT	CAG AAG CTA	ACT GCC TTA	ACA TAC GCT	GTG TGG GGA	CAT TGG CCC	AGA GCT CAT	CAG CTT GTC	GAT CTG CTC
4581	4635	4689	4743	4797	4851	4905	4959	5013
ATC ACT GTG (	ATC CTA TTA	CCT TTT GTA	TGC GTT TAT	CAC AGC TCT	TGG GCC TGC	CTC CTA GGA	TTG TTC TGA	AGT CAT TTT
4572	4626	4680	4734	4788	4842	4896	4950	5004
TTT GTC	TCG GTC	GGG GGT	CTG GTC	AGT CAC	GGA AGC	GAA ATT	TAG TTT	CCA GAC
TAC	GAG	CAT	ATC	TTĞ	999	AAA	AAT	AAA
4563	4617	4671	4725	4779	4833	4887	4941	4995
TTG TCG	ACG GGA	GGT CAC	GTG ATG	CGT GGG	CCT GCC	GCT AAG	TAT TTT	AGA GAT
CAT	GTG	T.L.L	AAA	ACA	GCT	AGA	AAT	GAC
4554	4608	4662	4716	4770	4824	4878	4932	4986
CAG CAC AGC	CAG CTC TTT	CCA ACA ITG	ATT ACC AAT	CTG TTC CTG	ACA GGA GTG	CAT GAG GGG	CAT CCT AGT	ACA GAA TGG
4545	4599	4653	4707	4761	4815	4869	4923	4977
GGT ACT TCA	TTC CTT TCT	AGC CAT AGT	TGA CTC AAC	TGT TCG GTC	ACG TGG GAG	TGT GTC TAT	GGC CCA GTA	AGG AAG GGC

## FIGURE 2Q

## and provided that the provided the state of the state of

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5076 ACA CAC	5130 ACA TAA	5184 CCC ACA	5238 GTG GGT	5292 TGT ATT	5346 . AAA GCT	5400 . AAG ACA	5454 TTG ACT	5508 . TTT CTG
TCC	GAA	GGT	TGT	TCC	GAA	AAA	GTG	GCA
5067 AAT GCA	5121 TGC CAT	5175 TTT TCG	5229 AGT GTG	5283 TGA ACA	5337 GAT GTG	5391 ACA GAA	5445 ATT TTT	5499 TCT TCT
TCT	TTC	ACA	TAG	TTC	CCC	AAA	TGT	GTC
5058 TGC TTG	5112 AAG TAG	5166 CAG AGA	5220 CAG TAT	. 5274 TCA TTG	5328 GTG AAT	5382 ACT TTA	5436 GCA CAT	5490 ACC CGT
TGA	CCT	ACA	CGT	CCT	CCT	ŢŢŢ	TTG	CGT
5049 GGC AAT	5103 CAC GCT	5157 CAC ATC	5211 CTC TCG	5265 CAT CTT	5319 AAA GTG	5373 CAT GTA	5427 TTT TTA	5481 CAC ACA
AGA	TGC	TTA	TCA	JCC	GCT	TAC	TTT	GTC
5040 CAA GTC	5094 TGG CGA	5148 AAG CCG	5202 GGA AGC	5256 GGT GGC	5310 TGG GGT	5364 TCA GCA	5418 TCT ATT	5472 TGA TGT
m TTT	GAC	GAA	GCA	CIC	GGC	AGC	ATG	AAA
5031 TCT ACG GTT	5085 TGC ATG TCT	5139 AAG ACA AAG	5193 GCG GTG GTG	5247 CTC GGG GAT	5301 GTA AAC CAT	5355 GGA GGT GAA	5409 TGT ATG GAT	5463 TGT TTT TAG AAA
TCT	TGC	AAG	505	CIC	GTA	GGA	TGT	TGT

### FIGURE 2R

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5562 TGT TAC CAG	5616 CCT GAG	5670 ATA TTT	
TGT	JCC	GGC	
5553 TCT AAG TGG	5607 ACA GCC	5661 ATA AAA GGC	
TCT	CIC	CTA	
5544 GCG GCG GTG	5598 CTC TTT	5652 CAA CTC	
GCG	TGG	ATG	
5535 TCA CGT	5589 TGA CAG	5643 GTA CAT	
	GGA	TCT	A 3.
5526 GTT TCT TAA	5580 GAC CTT	5634 GCT TTC	5688 AAA AAA A 3'
TCT	AGT	ACA	AAA
551 <i>7</i> IGT CAT GGT	5571 TGT ACG CGC /	5625 CTG TGA GAA ACA	5679 CTT CCT GTT AAA
TGT	TGT	CTG	CTT

## FIGURE 3A

55118 82063	g3868778 g8037915	1555118 2582063 g3868778 g8037915	1555118 2582063 g3868778 g8037915	1555118 2582063 g3868778 g8037915	1555118 2582063 g3868778 g8037915
	V S D N N F S S E E P S R K N P T R W S T V S D S N F S S E E P S R K N P T R W S T	KLVVPDST	QNLEDREVLNGVQTELLTSPRTKD NQFQRDNARSSLSASHPMVGKWLEKQEQDE NQFQRDNARSSLSASHPMVDRWLEKQEQDE 		MTRTVEISGEGGPLGIHVVPFFFSLSGRILL MVKLVEVPNDGGPLGIHVVPF - SARGGRTL MVKLVOVPNDGGPLGIHVVPF - SARGGRTL MVKLVEVPNDGGPLGIHVVPF - SARGGRTL
145	151	164 181 181 181	172 211 211 195	196 241 241 197	200 271 271 227

FIGURE 3B

GLFIRGIEDNSRSKREGLFHENECIVKINN 1555118	VDLVDKTFAQAQDVFRQAMKSPSVLLHVLP 1555118	PQNREQYEKSVIGSLNIFGNN DGVLK 1555118	TKVPPPVHGKSGLKTANLTGTDSPETDASA 1555118	SLQONKSPRVPRLGGKPSSPS - L SPLMG - 1555118
GLLVKRLEKGGKAEHENLFRENDCIVRIND 2582063	GDLRNRRFEQAQHMFRQAMRTPIIWFHVVP 2582063	AANKEQYEQLSQSEKNNYYSSRFSPDSQYI 2582063	DNRSVNSAGLHTVQRAPRLNHPPEQIDSHS 2582063	RLPHSAHPSGKPPSAPASAPQNVFSTTVSS 2582063
GLLVKRLEKGGKAEQENLFHENDCIVRIND 93868778	GDLRNRRFEQAQHMFRQAMRARVIWFHVVP 93868778	AANKEQYEQLSQREMNNYSPGRFSPDSHCV 93868778	ANRSVANNAPOALPRAPRLSOPPEQLDAHP 93868778	RLPHSAHASTKPPTAPALAPPNVLSTSVGS 93868778
GLLVKRLEKGGKAEHENLFRENDCIVRIND 98037915	GDLRNRRFEQAQHMFRQAMRTPIIWFHVVP 98037915	AANKEQYEQLSQSEKNNYYSSRFSPDSQYI 98037915	DNRSVNSAGLHTVQRAPRLNHPPEQIDSHS 98037915	RLPHSAHPSGKPPSAPASAPONVFSTTVSS 98037915
230	260	290	316	346
300	330	360	390	420
300	330	360	390	420
256	286	316	346	376

### FIGURE 3C

1555118	1555118	1555118	1555118	1555118
2582063	2582063	2582063	2582063	2582063
g3868778	g3868778	g3868778	g3868778	g3868778
g8037915	g8037915	g8037915	g8037915	g8037915
FGSNKNAKKIKIDLKKGPEGLGFTVVTRD 1 YNTKKIGKRLNIQLKKGTEGLGFSITSRD 2 YNTKRVGKRLNIQLKKGTEGLGFSITSRD 9	SIHGPGPIFVKNILPKGAAIKDGRLQSGD TIGGSAPIYVKNILPRGAAIQDGRLKAGD TIGGSAPIYVKNILPRGAAIQDGRLKAGD TIGGSAPIYVKNILPRGAAIQDGRLKAGD	I LEVNGRDVTGRTQEELVAMLRSTKQGET LIEVNGVDLVGKSQEEVVSLLRSTKMEGT LIEVNGVDLAGKSQEEVVSLLRSTKMEGT LIEVNGVDLVGKSQEEVVSLLRSTKMEGT	S LV I AR Q E G H F L P R E L K G E P D C C A L S L E T 1 S L L V F R Q E D A F H P R E L N A E P S Q M Q I P K E T 5 S L L V F R Q E E A F H P R E M N A E P S Q M Q S P K E T 5 S L L V F R Q E D A F H P R E L	EQ
373 – 450 450 450 VJ 406 G G	402 S	432 R	462 A	570 K
	480 V	510 R	540 V	570 K
	480 V	510 R	540 V	570 K
	436 V	466 R	496 V	513 K

FIGURE 3D

1555118	1555118	1555118	1555118	1555118
2582063	2582063	2582063	2582063	2582063
g3868778	g3868778	g3868778	g3868778	g3868778
g8037915	g8037915	g8037915	g8037915	g8037915
V S L K G N K S R E T G T D L G I F I K S I I H G G A V S V K G N R S K E N H A D L G I F V K S I I N G G A V S V K G N R S K E N H A D L G I F V K S I I N G G A V S V K G N R S K E N H A D L G I F V K S I I N G G A	GRLRMNDQLIAVNGESLLGKSNHEAM	RRPMSMEGNIRGMIQLVILRR	PERPMEDP-AECGAFSKPCFE	NAVTTSRRNDNSILHPLGTCSPQDKQK
	GRLRVNDQLIAVNGESLLGKANQDAM	RRSMSTEGNKRGMIQLIVARRISKCNE	PGSPPGPELPIETALDDRERRISHSLY	EGLDESPSRNAALSRIMGESGKYQLSP
	GRLRVNDQLIAVNGESLLGKANQEAM	RRSMSTEGNKRGMIQLIVARRISKCNE	PGSPAAPELPIETELDDRERRISHSLY	EGLDESPTRNAALSRIMGESGKCQLSP
	GRLRVNDQLIAVNGESLLGKANQEAM	RRSMSTEGNKRGMIQLIVARRISKCNE	PGSPPGPELPIETALDDRERRISHSLY	EGLDESPSRNAALSRIMG KYQLSP
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	A S K K D S K K D K K D K K D K K D K K D C K K D C K K D C K C C K C C K C C K C C K C C C K C C C K C	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	 	N N N N N N N N N N N N N N N N N N N
508 600 600 543	538 630 630 573	568 660 663	592 690 633	612 720 720 663

#### FIGURE 3E

SLLLPNDGWAESEVPPSP 1555118 VNMPQDDTVIIEDDRLPVLPPHLSDQSSS 2582063 VNMPHDDTVMIEDDRLPVLPPHLSDQSSS 93868778 VNMPQDDTVIIEDDRLPVLPPHLSDQSSS 98037915	HSALGLGLEDYSHS 1555118 HDDVGFVTADAGTWAKAAISDSADCSLS 2582063 HDDVGFIMTEAGTWAKATISDSADCSLS 93868778 HDDVGFVTADAGTWAKATISDSADCSLS 98037915	VDSAVYFPDQHINFRSVTPAR 1555118 VDPVLAFQREGFGRQSMSEKRTKQFSDA 2582063 VDPVLAFQREGFGRQSMSEKRTKQFSNA 93868778 VDPVLAFQREGFGRQ 98037915	PESINLKASKSMDL-VPDESKVHSLAGQ 1555118 LDFVKTRKSKSMDLGIADETKLNTVDDQ 2582063 LDFVKTRKSKSMDLGIADETKLNTVDDQ 93868778 IADETKLNTVDDQ 98037915	ESPSKDFGPTLGLKKSSSLESLQTAVAE 1555118 GSPSRDVGPSLGLKKSSSLESLQTAVAE 2582063 GSPNRDVGPSLGLKKSSSLESLQTAVAE 93868778 GSPSRDVGPSLGLKKSSSLESLQTAVAE 98037915
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#### FIGURE 3F

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FIGURE 3G

FIGURE 3H

RESSQQAQRQYSSLPRQSR 2582063 RESEQQAQRQYSSLPRQSR 93868778 RESSQQAQRQYSSLPRQSR 98037915	EQNYSPGEGFQSAKENPRY 2582063 EQNYAPGEGFQSAKENPRY 93868778 EQNYSPGEGFQSAKENPRY 98037915	-GSQFCARSLSAEAEELF - 1555118 GGHGFNARVM - LETQELLR 2582063 GGHGFNARVM - LETQELLR 93868778 GGHGFNARVM - LETQELLR 98037915	КОРР S E G P S N Y D S Y K K V O D       2582063         КОРР A D G V G       93868778         КОРР S E G P S N Y D S Y K K V O D       98037915	QDVPPSPSQVARLNRLQTP 2582063 QDVPPSPSQVARLNRLQTP 93868778 QDVPPSPSQVARLNRLQTP 98037915
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905 1200 1198 1110	905 1230 1228 1140	905 1260 1258 1170	925 1289 1287 1199	926 1319 1306 1229

#### FIGURE 31

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934	1349	1330	1259

FIGURE 3J

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